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(51) INTL.CL.<sup>5</sup> B60S-001/54; B60H-001/22

(19) (CA) **APPLICATION FOR CANADIAN PATENT** (12)

(54) Window Mounted Car Warmer and Window Defroster

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(71) Same as inventor

(57) 5 Claims

Notice: This application is as filed and may therefore contain an incomplete specification.



Industrie Canada Industry Canada

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**2121924**

**Abstract**

A window mounted, 110 volt A/C, car warmer and window defroster.

2121924

## Specification

There are a number of automobile window defrosters on the market all of which are generally unacceptable since they take too long to do their job. Usually when someone is trying to remove frost from their automobile windshield they are leaving for work and time is therefore very much of the essence. The reason why so many of these devices fail is because they are made to operate on the vehicles own twelve volt power system, which means that the force of warm air which they produce is less than adequate to do the job of clearing the windshield and since waiting any length of time is out of the question the device becomes unusable. Another drawback of these devices is that they drain precious power from the automobile battery which is vitally needed for starting the car in cold weather. Plug in 110 volt window defrosters and car heaters have not appeared on the market because of the various problems involved trying to run a stationary land based 110 volt system to service the interior of a motor vehicle.

My invention overcomes all of these problems and provides a much needed service for all motor vehicle owners in that it is able to effectively defrost all of the windows in a motor vehicle and at the same time warm the interior using regular 110 volt A/C power. It eliminates the necessity of having to clean the windows saving the driver precious time and providing a greater margin of driving safety by having all of the windows completely frost free.

My defroster unit is made to be mounted on a side or rear window of a vehicle and is held in place by the window itself. The device is simply placed on the top edge of either front or rear side window and by raising the window to the closed position the defroster is clamped firmly in place and may be left there for the duration of the winter season. Power is supplied by an ordinary 110 volt extension cord which is then plugged into the device on the **outside** of the window.

The essence of this invention lies in the manner in which 110 volt power is supplied to the interior of the motor vehicle without the use of wires and without violating in any way the integrity of the motor vehicle's exterior envelope.

Two manifestations of my invention are shown in the drawings, where Fig.1 shows a perspective of a device looking at it from inside the vehicle with the device mounted on the top edge of an open side window, Fig.2 shows a section A-A through the device, Fig. 3 shows a

detail of Fig. 2 where the device passes over the top of the window, and Fig. 4 shows a different manifestation of my invention, one which would allow the heater unit on the inside of the vehicle to be detached or unplugged.

In which (a) is the body of the heater containing the motor, fan, and heating element, (b) is the top edge of the side or rear window of a motor vehicle, (c) is the extension cord supplying standard 110 volt power to the unit, and (d) and (r) shows where the extension cord will plug into which is on the outside of the vehicle's window. (e) is a steel spring which holds the device firmly against the window (f) showing the conductor route and (g) showing the insulating material and (h) showing the top of the window. (i) shows the motor which is fastened to the body of the unit (a) at (j) and which drives the fan (k) air is taken in through the vents (l) and passes over the heating element (m) and is directed by the cowling (n) into the interior of the vehicle. (o) is a thermostat which acts to turn the heater and fan off as soon as the interior of the vehicle reaches a certain temperature, that is, normal room temperature warm enough to keep all of the vehicle's windows free of frost. (p) shows where an extension cord or device having a plug-in cord might be plugged into the device on the inside of the vehicle. (q) shows a cover which would be closed over the exterior plug-in lines (r) when the vehicle was travelling or the device was not in use to present a more streamlined appearance and prevent wind noise. (s) shows a slot provided in the device to accommodate the top edge of the motor vehicle's window.

The body of the device could be made of bakelite or some type of heat resistant plastic.

## Claims

- (1) A 110 volt electrical connector either separate, or incorporated into the body of an electrical device, such as a fan, heater, or dryer, made to fit over the top or side edge of a window, such as in a motor vehicle, and which will allow such window to be closed.
- (2) A 110 volt electrical connector as in claim (1) having a standard male plug-in receptacle appearing on the outside of a window, say on a motor vehicle, when it is installed on a window and the window is closed.
- (3) A 110 volt window mounted electrical connector having a standard 110 volt male plug-in receptacle appearing on the one side of a window, when mounted on a window, and a 110 volt female plug-in receptacle appearing on the other or opposite side of a window.
- (4) A 110 volt window mounted electrical connector or device incorporating a thermostat.
- (5) A 110 volt window mounted electrical device or connector having a metal spring or suction cup to hold it firmly against a window.

